

IN THE CLAIMS

Please amend the claims as follows:

1. (original) Device for recording information on a record carrier, the record carrier comprising a track for recording information, which information includes real-time information that is to be reproduced continuously via a rendering system having predefined properties at least including

- a buffer coupled to a read-out unit,
- a minimal read-out speed R_{disc} of the read-out unit for retrieving information from the track into the buffer, and
- a maximal seek time T_{seek} for accessing information anywhere on the record carrier,

the device comprising a head for scanning the track, and a write unit for recording information in the track via the head, the information being arranged in files, a file having properties at least including

- a maximal data rate R_{file} of the file for the real-time information in the file to be reproduced continuously, and
- a maximal size of header information $S_{headers}$ that precedes and/or follows the real-time information in the file,

the device having an allocation unit for

- determining a minimal size of an extent S_{extent} that is a continuous recording unit at least taking into account the properties R_{disc} , T_{seek} , R_{file} and S_{headers} , and
- recording the information of the files in contiguous parts of the track at least having the size of S_{extent} .

2. (original) Device as claimed in claim 1, wherein the allocation unit comprises an extent unit that contains a number of predefined extent sizes and corresponding maximal data rates available for R_{file} .

3. (original) Device as claimed in claim 1, wherein the allocation unit comprises an extent unit for determining said minimal size or a maximal data rate for R_{file} based on: $S_{\text{extent}} = ((T_{\text{seek}} + S_{\text{headers}} / R_{\text{disc}}) * R_{\text{file}} * R_{\text{disc}}) / (R_{\text{disc}} - R_{\text{file}})$

4. (currently amended) Device as claimed in claim 1, ~~2 or 3~~, wherein the device is arranged for determining a disc type and determining the S_{extent} taking into account for R_{disc} an overhead in dependence of the disc type, in particular a packet overhead for a re-writable disc type.

5. (original) Device for reading information from a track on a record carrier, which information includes real-time information that is to be reproduced continuously via a rendering system having predefined properties at least including

- a buffer coupled to a read-out unit,
- a minimal read-out speed R_{disc} of the read-out unit for retrieving information from the track into the buffer, and
- a maximal seek time T_{seek} for accessing information anywhere on the record carrier,

the device comprising a head for scanning the track, a read unit for reading information in the track via the head, the information being arranged in files, a file having properties at least including

- a maximal data rate R_{file} of the file for the real-time information in the file to be reproduced continuously,
- a maximal size of header information $S_{headers}$ that precedes and/or follows the real-time information in the file, and
- being recorded in contiguous parts of the track at least having a size of S_{extent} at least taking into account the properties R_{disc} , T_{seek} , R_{file} and $S_{headers}$,

and a read-buffer coupled to the head, the read-buffer having at least a size $S_{buffer,min}$ determined taking into account the values of

- a read-out speed R_{disc_dev} of the read unit for retrieving information from the track into the read-buffer, and
- a maximal seek time T_{seek_dev} of the head for accessing information anywhere on the record carrier, and
- the maximal values of the properties R_{file} and $S_{headers}$ for files to be played: $R_{file,max}$ and $S_{headers,max}$.

6. (original) Device as claimed in claim 5, wherein the read-buffer has a size based on: $S_{buffer,min} = ((t_{seek,max} + S_{headers,max}/R_{disc,max}) * R_{file,max}$

7. (original) Device as claimed in claim 5, wherein the read unit is arranged for reading a flag from the files indicating whether two files are intended to be played seamless, in particular the file containing the flag and the previous one.

8. (original) Method for recording information on a record carrier, the record carrier comprising a track for recording information, which information includes real-time information that is to be reproduced continuously via a rendering system having predefined properties at least including

- a buffer coupled to a read-out unit,

- a minimal read-out speed R_{disc} of the read-out unit for retrieving information from the track into the buffer, and
- a maximal seek time T_{seek} for accessing information anywhere on the record carrier,

and which information is arranged in files, a file having properties at least including

- a maximal data rate R_{file} of the file for the real-time information in the file to be reproduced continuously, and
- a maximal size of header information $S_{headers}$ that precedes and/or follows the real-time information in the file,

which method comprises

- determining a minimal size of an extent S_{extent} that is a continuous recording unit at least taking into account the properties R_{disc} , T_{seek} , R_{file} and $S_{headers}$, and
- recording the information of the files in contiguous parts of the track at least having the size of S_{extent} .

9. (original) Method as claimed in claim 8, wherein the method comprises a step of including a flag in the files indicating whether two files are intended to be played seamless, in particular the file containing the flag and the previous one.

10. (original) Method as claimed in claim 8, wherein the maximal size of header information S_{headers} is determined including additional data that precedes and/or follows the real-time information in the file, in particular lyrics information additional to an audio file.

11. (currently amended) Computer program product for recording information, which program is operative to cause a processor to perform the method as claimed in claim 8, ~~9 or 10~~.

12. (original) Record carrier comprising a track that carries information, which information includes real-time information that is to be reproduced continuously via a rendering system having predefined properties at least including

- a buffer coupled to a read-out unit,
- a minimal read-out speed R_{disc} of the read-out unit for retrieving information from the track into the buffer, and
- a maximal seek time T_{seek} for accessing information anywhere on the record carrier,

and which information is arranged in files, a file having properties at least including

- a maximal data rate R_{file} of the file for the real-time information in the file to be reproduced continuously, and

- a maximal size of header information S_{headers} that precedes and/or follows the real-time information in the file, and

the track comprising continuous recording units at least having a size of S_{extent} at least taking into account the properties R_{disc} , T_{seek} , R_{file} and S_{headers} .

13. (original) Record carrier as claimed in claim 12, wherein the files comprise a flag indicating whether two files are intended to be played seamless, in particular the file containing the flag and the previous one.